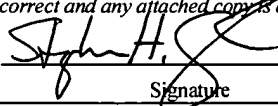
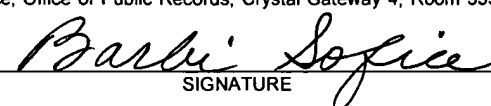




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| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.   |  |                              |   |                                    |  |
| <b>1. Name of conveying party(ies):</b><br><br>Paolo Lorenzo CIACCI<br>Daniele COUTANDIN<br>Domenico DALLE CRODE<br><br>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  |                              | <b>2. Name and address of receiving party(ies):</b><br><br>Name: Avio S.p.A.<br>Internal Address:<br><br>Street Address: Via I Maggio, 99<br><br>City: Rivalta di Torino Country: Italy Zip: 10040<br><br>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |                                    |  |
| <b>3. Nature of conveyance:</b><br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Other<br><br>Execution Date:<br>October 9, 2003   |  |                              |   |                                    |  |
| <b>4. Application number(s) or registration number(s):</b><br><br>If this document is being filed together with a new application, the execution date of the application is:<br><br>A. Patent Application Serial No.(s): 10/604,337<br><br>B. Patent No.(s):<br><br>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  |                              |   |                                    |  |
| <b>5. Name and address of party to whom correspondence concerning document should be mailed:</b><br><br>Name: HOWREY SIMON ARNOLD & WHITE LLP<br>750 Bering Drive<br><br>City: Houston State: Texas Zip: 77057-2198  |  |                              | <b>6. Total number of applications and patents involved:</b> <u>1</u><br><b>7. Total fee (37 C.F.R. 3.41)</b> \$ <u>40.00</u><br><input type="checkbox"/> Enclosed<br><input checked="" type="checkbox"/> Authorized to be charged to deposit account if check insufficient or inadvertently omitted<br><br><b>8. Deposit account number:</b><br><u>01-2508/12693.0021.00US00 (STUD:021)</u><br>(Attach duplicate copy of this page if paying by deposit account) |                                    |  |
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| <b>9. Statement and signature.</b><br><i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i><br><br>Stephen H. Cagle<br><br>Name of Person Signing, Reg. No. 26,445<br><br>Signature:  Date: December 8, 2003<br><br>Total number of pages including cover sheet, attachments and documents: <u>2</u> |  |                              |   |                                    |  |

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| I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: U.S. Patent and Trademark Office, Office of Public Records, Crystal Gateway 4, Room 335, Washington, DC 20231, on the date below: |   |
| Date: <u>12-10-03</u>  | <br>SIGNATURE |

# A S S I G N M E N T

Serial No. 10/604,337

Filed July 11, 2003

Title "METHOD OF PRODUCING AND ASSEMBLING A COOLING DEVICE INSIDE AN AXIAL-FLOW GAS TURBINE BLADE, AND AXIAL-FLOW GAS TURBINE BLADE PRODUCED USING SUCH A METHOD"

In exchange for good and valuable consideration Messrs Paolo Lorenzo CIACCI, Daniele COUTANDIN and Domenico DALLE CRODE, three Italian subjects the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign(s) to:

AVIO S.p.A.  
10040 RIVALTA DI TORINO (Italy) Via I Maggio, 99

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, executed by the undersigned on October 9, 2003, and in said application and any and all other applications in the United States, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee:

AVIO S.p.A.

The undersigned hereby authorize(s) and request(s) the attorneys of record in said application to insert in this assignment the date and serial number of said application when officially known.

The undersigned warrant(s) themselves (himself) to be the owners (owner) of the interest herein assigned and to have the right to make this assignment; and further warrant(s) that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said considerations the undersigned hereby agree(s) upon the request and at the expense of said assignee, its successors and assigns to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for the afore-said consideration the undersigned further agrees upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matter of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent in the United States and vest all rights therein hereby conveyed in the said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

Witness our (my) hand(s) and seal(s) this 9<sup>th</sup> day of October 2003

  
\_\_\_\_\_  
Paolo Lorenzo CIACCI

(Seal)

  
\_\_\_\_\_  
Daniele COUTANDIN

  
\_\_\_\_\_  
Domenico DALLE CRODE

(Seal) WITNESS:

  
\_\_\_\_\_  
Giovanni ZANON